

REMARKS

Favorable reconsideration of this application, as present amended and in light of the following discussion, is respectfully requested.

Claims 1-3, 5-9, 11, 12, 14, 15, 17-27, and 29-37 are currently pending. Claim 1, 7, and 19-25 have been amended; and Claims 32-37 have been added by the present amendment. The changes and additions to the claims are supported by the originally filed specification and do not add new matter.

In the outstanding Office Action, Claims 1-3, 5-9, 11, 12, 25-27 and 29-31 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,833,865 to Fuller et al. (hereinafter “the ‘865 patent”), in view of the Wikipedia reference and U.S. Patent No. 7,139,467 to Seo et al. (hereinafter “the ‘467 patent”); and Claims 14, 15, and 17-24 were rejected under 35 U.S.C. § 103(a) as being unpatentable over the ‘865 patent, the Wikipedia reference, and the ‘467 patent, further in view of U.S. Patent Application Publication No. 2002/0041754 to Kikuchi et al. (hereinafter “the ‘754 application”).

Amended Claim 1 is directed to a method of compressing and recording data of image information on a recording medium according to a decoding and reproducing unit comprising a plurality of frames, the method comprising: (1) performing compression of inputted image data; (2) generating additional information about the inputted image data; and (3) multiplexing an additional information block that includes the additional information generated in the generating step at a block position immediately after a pack that contains reproduction management information of the inputted image data and immediately before a group of blocks that include compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit, and recording the additional information block on the recording medium, wherein the additional information includes at least application information, recording time information,

and camera information. The changes to Claim 1 are supported by the originally filed specification and do not add new matter¹

The '865 patent is directed to an integrated data and real-time metadata capture system, comprising: (1) a digital capture device producing a digital representation of one or more forms of media content; (2) a feature extraction engine configured to automatically extract metadata in real time from the digital content simultaneously with encoding of the content; (3) a storage device configured to store the encoded media content in the metadata; and (4) an output interface in communication with the storage device to generate output data while preserving a temporal relationship between a sequence of the metadata and additional content. As shown in Figure 1, the '865 patent also discloses a collateral data input unit storing metadata related to the device state, which can be formatted with the content data. Further, the '865 patent discloses that the device data information can include lens properties, enclosure values, f-stops, and audio gains. Further, the '865 patent discloses that the metadata may be combined with the content data using the MPEG-7 format or in other formats such as Apple QuickTime.²

However, the '865 patent fails to disclose a method of compressing and recording data of image information including the step of multiplexing an additional information block that includes the additional information generated in a generating step at a block position immediately after a pack that contains reproduction management information of the inputted image data and immediately before a group of blocks that include compression image information processed by compressed encoding, as recited in amended Claim 1.

Moreover, Applicants respectfully submit that the '865 patent fails to disclose that the additional information includes at least application information, recording time information,

¹ See e.g., paragraphs [0132] and [0142] in the published application.

² See '865 patent, column 6, lines 13-22.

and camera information, as recited in amended Claim 1. Rather, the '865 patent merely discloses various forms of collateral metadata including user-provided information such as labels, selections, and annotations, and device data information including lens properties, exposure values, F-stops, and audio gains. However, Applicants respectfully submit that the '865 patent fails to disclose the application information and the recording time information recited in Claim 1.

Applicants respectfully submit that the Wikipedia reference related to the f-number fails to remedy the deficiencies of the '865 patent, as discussed above. Rather, the Wikipedia reference merely discloses the meaning of a stop and an f-stop.

The '467 patent is directed to a method and apparatus of providing supplemental service information for audio/video content written in a recording medium. In particular, the '467 patent discloses that the method includes the steps of reproducing the audio/video data and language formatted data from a recording medium; checking a packet identifier of each transport packet reproduced from the recording medium; discriminating language-formatted data packets from audio/video data packets based on the checked packet identifier; and transmitting the reproduced audio/video data and language-formatted data to a connected external apparatus through a digital interface. As shown in Figure 7, the '467 patent discloses that the hierarchical data structure of an HD-DVD thus includes navigation data, ATVEF data and A/V data.

However, Applicants respectfully submit that the '467 patent fails to disclose multiplexing an additional information block that includes the additional information generated in the generating step at a block position immediately after a pack that contains reproduction management information of the inputted image data and immediately before a group of blocks that includes compressed image information processed by compression encoding, wherein the additional information includes at least application information.

recording time information, and camera information, as recited in Claim 1. The ‘467 patent does not disclose application information, recording time information, and camera information as part of the additional information that is recorded in the particular location recited in Claim 1. The ‘467 patent does not disclose that the ATVEF data includes application information, recording time information, and camera information, as would be required by amended Claim 1.

Thus, no matter how the teachings of the ‘865 patent, the Wikipedia reference, and the ‘467 patent are combined, the combination does not teach or suggest multiplexing additional information block that includes the additional information at a position immediately after a pack that contains reproduction management information of the inputted image data and immediately before a group of blocks that include compressed image information processed by compression encoding, wherein the additional information includes application information, recording time information, and camera information, as recited in amended Claim 1. Accordingly, Applicants respectfully submit that the rejection of Claim 1 (and all associated dependent claims) is rendered moot by the present amendment to Claim 1.

Independent Claims 7 and 25 recite limitations analogous to the limitations recited in Claim 1. Moreover, Claims 7 and 25 have been amended in a manner analogous to the limitations in Claim 1. Accordingly, for the reasons stated above, Applicants respectfully submit that the rejections of Claims 7 and 25 (and all associated dependent claims) are rendered moot by the present amendment to Claims 7 and 25.

Independent Claims 19-24 recite limitations analogous to the limitations recited in Claim 1. Further, Claims 19-24 have been amended in a manner analogous to the amendment to Claim 1.

Regarding the rejection of independent Claims 19-24, Applicants note that the Office Action relies upon the ‘754 application as disclosing “reading compressed image information

according to the decoding and reproducing unit from the recording medium, decompressing the compressed information image, and reproducibly outputting image information according to the decoding and reproducing unit...”, as well as extracting additional information contained in the decoding and reproducing unit. However, Applicants respectfully submit that the ‘754 application fails to disclose the application information, recording time information, and camera information recited in amended Claim 19.

Thus, no matter how the teachings of the ‘754 application, the ‘865 patent, the Wikipedia reference, and the ‘467 patent are combined, the combination does not teach or suggest the additional information recited in independent Claims 19-24. Accordingly, for the reasons stated above, Applicants respectfully submit that the rejections of Claims 19-24 are rendered moot by the present amendment to those claims.

Regarding the rejection dependent Claims 14, 15, and 17 under 35 U.S.C. § 103(a), Applicants respectfully submit that the ‘754 application fails to remedy the deficiencies of the ‘865 patent, the Wikipedia reference, and the ‘467 patent, as discussed above. Accordingly, Applicants respectfully submit that the rejections of dependent Claims 14, 15, and 17 are rendered moot by the present amendment to Claim 19.

The present amendment also sets forth new Claims 32-37 for examination on the merits. New Claim 32, which depends from Claim 1, clarifies that the additional information includes an additional recording identifier. Further, new Claim 33, which depends from Claim 1, clarifies that the application information includes a vendor name as a manufacturer of a product, and a product name. New Claims 32 and 33 are supported by the originally filed specification and do not add new matter.³ Claims 34-37 recite similar limitations.

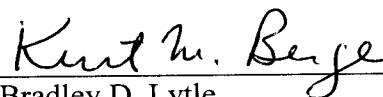
³ See, e.g., paragraph [0144] in the published application.

Thus, it is respectfully submitted that independent Claims 1, 7, and 19-25 (and all associated dependent claims) patentably define over any proper combination of the '754 application, the '865 patent, the '467 patent, and the Wikipedia reference.

Consequently, in view of the present amendment and in light of the above discussion, the outstanding grounds for rejection are believed to have been overcome. The application as amended herewith is believed to be in condition for formal allowance. An early and favorable action to that effect is respectfully requested.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Bradley D. Lytle
Attorney of Record
Registration No. 25,599

Customer Number
22850

Tel: (703) 413-3000
Fax: (703) 413 -2220
(OSMMN 08/07)

Kurt M. Berger, Ph.D.
Registration No. 51,461